

PLESHKOV, Ya. F.

551.579:628.13
 ✓ 5.3-269
 Pleshkov, IA, F., Vlianiye gidrologicheskikh izmereniy i oshibok na otzachu vodokhranilishch. [Influence of hydrological changes and errors on yield from reservoirs.] *Problemy Regulirovaniya Rechnogo Stoka*, Moscow, v. 5:239-261, 1952. figs., 5 tables, 3 refs., esp. DLC--Discusses effect of errors in the assumed rate of runoff and its seasonal distribution on the practical use of water reservoirs. Further, the possibility of changes in the hydrological cycle due to natural or artificial causes is analyzed. A set of tables facilitates the numerical evaluation of errors. *Subject Headings*: 1. Water reservoirs 2. Hydrologic cycle.--A.A.

DEC. 1952

PLESHKOV, Ya. F.

USSR/Engineering - Water Supply Oct 51

"On the Extent of Salt Accumulation in Water Reservoirs," Ya. F. Pleshkov, Engr

"Gidrotekh Stroi" No 10, pp 9-15

Discusses variation in concn of mineral salts in water reservoirs and outlines law of salt equil and measures for improving water quality. Illustrates method of investigation by calcn example and graphs.

201T102

FLESHKOV, Y. F.

"Limited Regulation of Flood Waters And Spring Waters
and Increases in Small Outputs", Gidrotekh, Stroi,
No. 7, 1948. Engr.

PIESHKOV, YA. F.

Tekhnicheskiye ukazaniya po vosstanovleniyu gidrosooruzheniy (Technical Instructions
for the Reconstruction of Hydraulic Structures) No 2, Energoizdat, 1943.

SO: U-3039, 11 Mar 1953.

PINIS, G.S., inzhener-kapitan 1-go ranga; PLESHKOV, V.Z., inzhener-kapitan
3-go ranga

The spare parts, tools and accessories of the ship. Mor. sbor.
48 no.4:76-80 Ap '65. (MIRA 18:6)

FRANKEV, V.V. (cont.)

History of the Leningrad Province Hospitals. Group term. 1941. 1941.
Inst. 23.065-71. 1941.

L 34034-66 EWT(1)
ACC NR: AR6017190

SOURCE CODE: UR/0058/65/000/012/A031/A031

AUTHOR: Pleshkov, V. L.; Vishnevskiy, N. K.; Odintsov, G. S.

TITLE: Unified 10-channel synchronizer US-10

SOURCE: Ref. zh. Fizika, Abs. 12A306

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1, M., Atomizdat, 1964, 198-207

TOPIC TAGS: delay circuit, trigger circuit, pulse analyzer, pulse counter/ US-10 syn-
chronizer *multichannel synchronizer, multichannel*

ABSTRACT: The authors describe apparatus for obtaining an exact delay of a reference pulse. The arriving reference pulse triggers a scaler device, to which pulses from a quartz generator are fed. After counting a specified number of pulses, the selection circuit produces an output pulse. Such a method makes it possible to obtain a delay accuracy of $\pm 0.005\%$. The apparatus described produces in each channel a delay of 0 - 100 msec in discrete steps of 10 μ sec. The instrument is constructed of semiconductor diodes and transistors, using printed wiring. V. P. [Translation of abstract]

SUB CODE: 20, 09

Card

1/1

PLESHKOV, V. F.

Pleshkov, V. F. "Effect of chloral hydrate, caffeine and bromine on the curve of sodium treatment induced fading of conditioned irritation," *Trudy fiziol. laboratorii im. Pavlova*, Vol. XIV, 1948, p. 140-48

SO: U-3264, 10 April 1953, (letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

L 30379-66

ACC NR: AP6012543

is carried out, and the condition of uniqueness and correspondence is proved. The first of these shows that for a given polynomial $W(\mu)$ the function f_μ is uniquely determined from the functions V^i . The second shows that f_μ is multinomial in its arguments if V^i is multinomial in the components of the vector A. A class 42m example is given to illustrate these points. The authors express their deep gratitude to L. I. Sedov and V. V. Lokhin for their interest in this work and for their critical remarks. Orig. art. has: 57 equations.

SUB CODE: 12, 20/ SUBM DATE: 10Feb65/ ORIG REF: 005/ OTH REF: 006

Card 2/2 PC

L 30379-66 EWT(d)/T IJP(c)

ACC NR: AP6012543

SOURCE CODE: UR/0040/66/030/002/0243/0251

AUTHORS: Pleshakov, V. F. (Moscow); Sirotin, Yu. I. (Moscow)

ORG: Moscow State University (Moskovskiy universitet)

TITLE: Anisotropic ¹⁶vector functions with vector arguments

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 2, 1966, 243-251

TOPIC TAGS: vector function, crystal anisotropy, group theory

ABSTRACT: Generalized anisotropic vector functions with vector arguments are derived, which are compatible with crystal symmetries. These vector functions

$$V^i = P^i(A^j);$$

satisfy the conditions of uniqueness and multinomial correspondence. The desired function is represented in the form

$$V^i = \sum_{\mu=1}^m \frac{\partial \omega_{\mu}^i}{\partial B_1} f_{\mu} \equiv \sum_{\mu=1}^m W_{(\mu)}^i f_{\mu}$$

where $W_{(\mu)}^i$ is some fixed polynomial whose exact form depends on the particular class of symmetry in the crystal and f_{μ} is an arbitrary function of three functionally independent, invariant vectors A of a point group. For each class of symmetry an expansion of the type

$$\Psi = \omega_1 f_1 + \dots + \omega_m f_m$$

Card 1/2

15
41
B

1. PLESHKOV, S. V., VASIL'YEV, N. P.
2. USSR (600)
4. Ducks
7. Duck-raising section on the "Novaia Shizn'" Collective Farm. Ptitsevodstvo no. 7, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Uncl.

PLESHKOV, P.P.

Kolkhoz imeni Makarova (Makarov kolhoz) Moskva, Gos. izd-vo sel'khoz lit-ry,
1952. 227 p.

IVANOV, Vladimir Fedorovich, professor, doktor tekhnicheskikh nauk;
PLESHKOV, P.F., professor, doktor tekhnicheskikh nauk, retsenzent;
KAPLAN, M.Ya., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskii redaktor

[Wooden structures] Dereviannye konstruktsii. Leningrad, Gos.
izd-vo lit-ry po stroit. i arkhitekture, 1956. 316 p. (MLRA 9:11)
(Building, Wooden)

PLESHKOV, P.

Agriculture

Planning collective-farm production. Moskva, Moskovskii rabochii, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 1957. 2. Unclassified.

ILLEGIBLE

PIRESHKOV, M. YE.

Technology

(Technical aspects of long-distance communications). (Moscow), Voennoe izd-vo, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1953, Uncl.

L 41795-65

ACCESSION NR: AB4039101

A method is recommended for a more correct allowance for free-system attenuation when the load is represented by a flat layer of the test substance.
One illustration. One table.

SUB CODE: EG

ENCL: 00

MC
Card 2/2

L 41795-65 EMI(a)/ZEG(x)-2/ZEG-4 Po-4/Pq-4/Pe-4/Pk-4/Pl-4
 S/O274/64/000/003/A022/A022
 23
 8

ACCESSION NR: AR4039101

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 3A109

AUTHOR: Pleshov, N. A.

TITLE: "Negative" width of resonance curves (a preliminary communication)

CITED SOURCE: Tr. Perask. s.-kh. in-t, v. 18, no. 7, 1963, 67-72

TOPIC TAGS: shf circuit, resonance curve

TRANSLATION: Resonance methods have been used in determining parameters of radio circuits, resistance, reactance, attenuation, phase relations, electric parameters of substances, and dipole moments of molecules. A two-wire line, a coaxial line, or a waveguide has been used as a measuring system in the investigations of shf parameters of substances. The electric parameters of solutions are determined by a two-wire line. It is shown that an allowance for the attenuation of a free measuring system made by the formula $\delta_2 = \delta - \delta_1$ (where δ_1 is the width of the resonance curve of the free system and δ is the width of the resonance curve of the loaded system) in some cases results in a "negative" width of resonance curves.

Card 1/2

LUK'YANOV, V.I.; MYSLIN, V.A.; SHMEYEROV, A.I.; KHORKHOT, A.Ya.;
 YELENSKIY, M.S.; MEL'NIKOVA, O.M.; PLESHKOV, L.Ye.; ORLOV, V.V.;
 ZLATOLINSKIY, V.N.; VISHNEVSKIY, F.L.; LAPSHENKOV, P.G.; MAKHOV,
 M.S.; RUKAVISHNIKOV, I.D.; LITKIN, K.F.; KOZHEVNIKOV, O.A.;
 ZORKIN, G.N.; NORMAN, B.B.; TUMANOV, N.S.; SEREBRYANIKOV, S.M.;
 VOLKOV, N.G.; NOVIKOV, P.G.; FRIDBERG, G.V., inzh., red.isd-va;
 GELINSON, P.G., tekhn.red.

[Designing chief plans for industrial plants; principal methods]
 Proektirovanie general'nykh planov promyshlennykh predpriyatii;
 osnovnye polozheniia. Moskva, Gos.isd-vo lit-ry po stroit.,
 arkhitekt. i stroit.materialam, 1960. 103 p.

(MIRA 13:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki. 2. Nauchno-issledovatel'skiy institut gradostroitel'stva Akademii stroitel'stva i arkhitektury USSR (for Khorkhot, Yelenskiy, Mel'nikova). 3. Gosudarstvennyy institut proyektirovaniya metallurgicheskikh zavodov (Gipromet) (for Pleshkov).
 (Continued on next card)

BERLYAND, S.S.; PLESHEV, L.Ye.; STOLYAROV, A.I.; YUREVICH, G.S.;
ROZANOV, N.G.; KOTSENEV, I.S., redaktor; BEKKER, O.G., tekhnicheskii redaktor

[Railroad transportation in metallurgy; a handbook] Zheleznodorozhnyi
transport v metallurgii; spravochnik. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1951. 592 p.
[Microfilm] (MLRA 10:1)
(Railroads, Industrial)

PLESHKOV, D.

I.

Dorozhno-Stroitel'nyye Mashiny (by) A.A. Pavliyev, D.I. Pleskov (ed.). Moscow, Mashgiz, 1960.

121 p. illus, digrs., graphs, tables.

(Sovetskoye Mashinostroyeniye v 1959-1965 gg)

Bibliographic: 1 footnotes.

known

RYVKIN, Mikhail Osipovich; DEMENT'YEV, Sergey Ivanovich;
PLESHKOV, Leonid Yefimovich [deceased]; GORKHOM,
Yevgeniy Naumovich; RABKIN, Yu I., red.

[Transportation in metallurgical plants] Transport na
metallurgicheskikh zavodakh. Moskva, Metallurgiya, 1964.
412 p. (MIRA 17.12)

LUK'YANOV, V.I.; KHORKHOT, A.Ya.; ZORKIN, G.N.; NORMANN, B.B.; PLESHKOV, L.Ye.; LYTKIN, K.F.; KOZHEVNIKOV, O.A.; TEMCHIN, N.A.; ORLOV, V.V.; ZLATOLINSKIY, V.N.; MAKHOV, M.S.; RUKAVISHNIKOV, I.D.; SHITOVA, L.N., red.izd-vo; OSENIKO, L.M., tekhn.red.

[Instructions for drafting general plans of industrial enterprises] Ukazaniia po proektirovaniu general'nykh planov promyshlennykh predpriatii. Odobreny Gosudarstvennym komitetom Soveta Ministrov SSSR po delam stroitel'stva 15 noiabria 1960 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1961. 131 p. (MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut grado-stroitel'stva i rayonnoy planirovki. 2. Akademiya stroitel'stva i arkhitektury SSSR, Nauchno-issledovatel'skiy institut grado-stroitel'stva i rayonnoy planirovki (for Luk'yanov). 3. Akademiya stroitel'stva i arkhitektury USSR, Nauchno-issledovatel'skiy institut gradostroitel'stva (for Khorkhot). 4. Giproaviaprom (for Zorkin, Normann). 5. Gosudarstvennyy soyuznyy institut po proektirovaniyu metallurgicheskikh zavodov (for Pleshkov). 6. Gosudarstvennyy institut po proektirovaniyu zavodov tyazhelogo mashinostroyeniya (for Lytkin, Kozhevnikov). 7. Gosudarstvennyy proyektnyy institut No.1 (for Temchin). 8. Gosudarstvennyy proyektnyy institut stroitel'noy promyshlennosti (for Orlov, Zlatolinskiy). 9. Gosudarstvennyy proyektnyy institut po promyshlennomu transportu (for Makhov, Rukavishnikov).

(Industrial plants—Design and construction)

0A

PLESHKOV L.YE

Projecting over-all plans for metallurgical plants.
K. P. Kostenuk and L. R. Pleshkov. *Stat. J.*, No. 11/12, 11-50:1943. M. Horsch

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC	NUMERIC	SYMBOLIC	ALPHABETIC	NUMERIC	SYMBOLIC
A	1	1	A	1	1
B	2	2	B	2	2
C	3	3	C	3	3
D	4	4	D	4	4
E	5	5	E	5	5
F	6	6	F	6	6
G	7	7	G	7	7
H	8	8	H	8	8
I	9	9	I	9	9
J	10	10	J	10	10
K	11	11	K	11	11
L	12	12	L	12	12
M	13	13	M	13	13
N	14	14	N	14	14
O	15	15	O	15	15
P	16	16	P	16	16
Q	17	17	Q	17	17
R	18	18	R	18	18
S	19	19	S	19	19
T	20	20	T	20	20
U	21	21	U	21	21
V	22	22	V	22	22
W	23	23	W	23	23
X	24	24	X	24	24
Y	25	25	Y	25	25
Z	26	26	Z	26	26

FEDOROV, D.I., kand.tekhn.nauk; NEDOREZOV, I.A., kand.tekhn.nauk;
PLESHKOV, D.I., kand.tekhn.nauk; TARASOV, S.M., inzh.;
SOKOLOVSKIY, S.V., inzh.

Which scraper is better. Stroi. i dor. mash. 6 no.6:13-17 Je
'61. (MIRA 14:7)

(Scrapers)

BORODACHEV, I.P., kand.tekhn.nauk; PLESHKOV, D.I., kand.tekhn.nauk

"Earthwork machines" by T.V.Alekseeva and others. Reviewed by
I.P.Borodachev, D.I.Pleshkov. Stroi.i dor.mash. 6 no.8:37-38
Ag '61. (Earthmoving machinery) (Aleksseeva, T.V.) (MIRA 14:8)

PLESHKOV, D.I., kand.tekhn.nauk

Unification of vehicular road and construction machinery. Stroi.i
dor.mash. 7 no.2:2:7 F '62. (MIRA 15:5)
(Construction equipment) (Road machinery)

VASIL'YEV, A.A.; PLESHKOV, D.I.; PRUSSAK, B.N.; SIZOV, G.I., inzh.,
retsensent; CHANGLI, I.I., inzh., red.; NIKITIN, A.G.,
red.izd-va; SMIRNOVA, G.V., tekhn.red.

[Road machinery] Dorozhno-stroitel'nye mashiny. Red.seri
"Mashinostroenie v 1959-1965 gg." I.I.Changli. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 121 p.
(Sovetskoe mashinostroenie v 1959-1965 gg.) (MIRA 13:8)
(Road machinery)

REBROV, A.S., inzh. [deceased]; USHENSKIY, V.F., inzh.; PLESHKOV,
D.I., kand. tekhn. nauk; BELEN'KIY, V.I., inzh.;
BERNADSKIY, G.I., inzh.; VALUTSKIY, I.I., inzh.; BAZANOV,
A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk;
RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand.
tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN,
M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV,
M.A., inzh.; SUDAKOVICH, D.I., inzh.; Prinsipali uchastiye:
SIGAL', Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIEVICH, V.Ya.,
kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent;
LAPIR, F.A., inzh., retsenzent; PETROV, N.M., kand. tekhn.
nauk, retsenzent; RYAKHIN, V.A., kand. tekhn. nauk, retsen-
zent; KHOLIN, N.A., inzh., retsenzent

[Construction machinery; a reference manual] Stroitel'nye
machinery; spravochnik. Izd.3., perer. i dop. Moskva, Ma-
shinostroenie, 1965. 788 p. (MIRA 18:6)

DEZHEGO, Yu.B., kand. tekhn. nauk; PLESHEV, D.I., kand. tekhn. nauk;
SROKIN, A.I., inzh.; STRAZH, Y.I., inzh.; YARKIN, A.A., inzh.

Self-propelled construction and road machinery. Stroil. i dor.
mash. 9 no. 2:10-14 Ag '64 (MIRA 12:1)

PLESHKOV, Dmitriy Ivanovich; NEMIROVSKIY, E.I., nauchnyy red.; BERE-
ZOVSKAYA, A.L., red.; RAKOV, S.I., tekhn.red.; TOKER, A.M.,
tekhn.red.

[Road machinery] Dorozhno-stroitel'nye mashiny. Izd.2., perer.
i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat.
1960. 471 p. (MIRA 13:7)

(Road machinery)

PLESHKOV, D.I., inzh.

Building and road machinery at the Poznan Fair in 1957. Stro1.
1 dor. mashinostr. 2 no.12:30-35 D '57. (MIRA 11:2)
(Poznan--Building machinery--Exhibitions)
(Poznan--Road machinery--Exhibitions)

PLESHKOV, D.I., kandidat tekhnicheskikh nauk.

Practice abroad in the use of wheel tractors for handling mounted
and trailer-type road construction equipment. Stroi. i dor.
mashinostr. 2 no.5:33-36 My '57. (MLRA 10:6)
(Tractors)

PLESHKOV, D.I., kandidat tekhnicheskikh nauk.

Soil packing and soil-packing machinery abroad. Stroil. 1 dor.
mashinostr. no.2:29-33 F '57. (MLRA 10:3'
(United States---Road rollers)

PLESHKOV, Dmitry Ivanovich; NEMIROVSKIY, E.I., nauchnyy red.; BURMISTROV, G.E.,
red.; OSTRIROV, N.S., tekhn.red.

[Road building machinery] Dorozhno-stroitel'nye mashiny. Moskva,
Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1957. 335 p. (MIRA 11:1)
(Road machinery)

PLESHKOV, D.I., kandidat tekhnicheskikh nauk.

Testing the cable systems of earthmoving machinery under field
conditions. [Trudy] VNIISTroidermash no.13:5-41 '56. (MLFA 10:4)
(Wire rope) (Earthmoving machinery)

PLESHKOV, D.I., kandidat tekhnicheskikh nauk.

Foreign tractors for use with mounted road-building equipment. Stroi.
i dor. mashinostr. 1 no. 12:35-36 I '56. (MLRA 10:1)
(United States--Bulldozers)

FLESHKOV, D.I., inzhener.

Possibilities of improving the operating qualities of tractor scrapers.
Mekh.stroi. 10 no.5:19-23 My '53. (MLRA 6:6)
(Excavating machinery)

STERN, D. I.

Rod Zakhary

"Treason our game." Reviewed by L. J. ...

9. Monthly List of Russian Accessions, Library of Congress, _____ 1958, Uncl.
2

PLESHKOV, D. I.

Technology

Tractor scrapers, Moskva, Mashgiz, 1/51.

9. Monthly List of Russian Accessions, Library of Congress, December 1/52. 1952, Uncl.

ПЕЧКОВ, С. И.

231/1 skreper yemkost'yu 2,25 m³ k traktoru STZ-3, "Kommunisticheskiy Stroitel'-
va, 1949, No. 7, c. 8-10.

SC: IETOFIS' NO. 31, 1949

PLESHKOV, B.P.; SHMYREVA, T.V.; IVANKO, Sh.

Variation of free amino acid concentration in corn leaves and roots under different conditions of nutrition. *Fiziol.rast.* 6 no.6:668-678 H-D '59. (MIRA 13:4)

1. Department of Agricultural and Biological Chemistry, K.A. Timiriazev Agricultural Academy, Moscow.
(Amino acids) (Corn (Maize)) (Plants--Nutrition)

SAVITSKAYTE, Ye.M., aspirant; PLESHKOV, B.P., kand.biolog.nauk

Methods for quantitative determination of free amino acids in
wheat. Izv.TSKHA no.4:96-104 '62. (MIRA 15:12)
(Wheat—Analysis and chemistry) (Amino acids)

PLESHKOV, B.P., kand. biolog. nauk

Amino acids in plants. Izv. TSKhA no.6:17-31 '61. (MIRA 16:8)

(Amino acid metabolism)
(Plants, Effect of acids on)

PLESHKOV, B.P., kand.biolog. nauk, dozent; SAVITSKAYTE, Ye.M. [Savitskaya, E.]
YASAYTIS, A. [Yasaitis, A.], aspirant

Correlation among free amino acids in the grain and the straw of
soft wheat. Izv. TSKhA no.5:100-106 '63. (MIRA 1:7)

PLESHKOV, B.P., *doctor, k. n. biolog. nauk*

Fertilizer on 1/64. variety of crop. in. 1000 ft. (1000 ft.)

1. Kaľedra apodstatili a biskupia v Bratislave, ktorí sa majú uchádzať o káľedru, sa musia najprv stať členmi káľedry, ktorá sa má uchádzať o káľedru.

PLESHKOV, B.P., dotsent, kand. biolog. nauk

Effect of nutrition conditions on the amount of free amino acids
and the amino acid composition of proteins in corn feed crops.
Izv. TSKNA no.3:141-151 '64. (MIRA 17:1)

1. Kafedra agrokhimii Moskovskoy sel'skokhozyaystvennoy akademii
imeni Timiryazeva.

FAM SUAN KKHAY; PLESHKOV, B.P.

Change in the protein composition of bean seeds as related to the
conditions of nutrition. Dokl. AN SSSR 162 no.1:215-218 My '65.
(MIRA 18:5)

1. Moskovskaya sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva.
Submitted January 15, 1965.

FLESHKOV, Boris Pavlovich; KLECHKOVSKIY, V.M., akademik; OZEROV,
V.N., red.; SHEFANOV, V.M., red.

[Biochemistry of agricultural plants] Biokhimiia sel'skoo-
khoziaistvennykh rastenii. Moskva, Kolos, 1965. 446 p.
(MIRA 12:8)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
imeni V.I. Lenina (for Klechkovskiy).

PLESHKOV, B.P., kand. biol. nauk; TAVROVSKAYA, O.L., kand. biol. nauk

Effect of the conditions of nitrogen and phosphorus nutrition
on the nitrogen substance content of potato tubers. Izv. ISKHA
no.4:96-104 '65. (MIRA 18:11)

1. Kafedra Agrokhemii Moskovskoy sel'skokhozyaystvennoy akademii
Lenina i akademii imeni Timiryazeva. Submitted September 9, 1963.

SMIRNOV, P.M.; PLESHKOV, B.P.

Effect of nitrogen, potassium and organic substances on the phosphorus uptake of potatoes from superphosphate. Dokl. AN SSSR 103 no.4:673-675 Ag'55. (MLRA 8:11)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva.
Predstavleno akademikom A.L.Kursanovym
(Potatoes) (Plants, Effect of phosphate on)

BALASHEV, L.L., prof.; GRIGOR'YEV, N.G., kand. biol. nauk;
 ZHURBITSKIY, Z.I., prof.; PETERBURGSKIY, A.V., prof.;
 POPOV, P.V., kand. sel'khoz. nauk; RADKEVICH, P.Ye., prof.;
 SOKOLOV, A.V.; TURCHIN, F.V., prof.; SHKONDE, E.I., kand.
 sel'khoz. nauk; SHTERNBERG, M.B., kand. biol. nauk;
 VOL'FKOVICH, S.I., akademik, red.; KORNEYEV, N.Ye., kand.
 veter. nauk, red.; NAYDIN, P.G., prof., red.; PLESHKOV, B.P.,
 kand. sel'khoz. nauk, red.; POPOV, I.S., akademik, red.;
 ROMASHKEVICH, I.F., kand. sel'khoz. nauk, red.; RODE, A.A.,
 prof., red.; ROZOV, N.N., prof., red. FATUYEV, M.R., inzh.,
 red.

[Chemicalization of agriculture; scientific and technical
 dictionary handbook] Khimizatsiia sel'skogo khoziaistva;
 nauchno-tekhnicheskii slovar'-spravochnik. Moskva, Nauka,
 1964. 398 p. (MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Sokolov). 2. Vsesoyuznaya
 akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for
 Popov)

Content of Tryptophane in Barley Proteins

SOV/20-126-5-63/69

with nutrition elements decreases the amount of tryptophane at plants of this age for about 30-35%. At all nutrition conditions the amount of tryptophane decreases usually with increasing age. But the decrease in the amount with increasing age is stronger in the proteins of the plants of the NPK-variant than in insufficiently nourished plants. Consequently the results obtained by the author show that the content of tryptophane is considerably changed even at the analysis of the total proteins of the plants. The author opposes to the experiment to classify the proteins according to their amount of amino acids. The investigations were carried out at the London University by Dr. L. Fowden. There are 1 table and 9 references, 2 of which are Soviet.

ASSOCIATION: Moskovskaya sel'skokhozyaystvennaya akademiya im. K. A. Timiryazeva (Moscow Agricultural Academy imeni K. A. Timiryazev)

PRESENTED: March 23, 1959, by A. I. Oparin, Academician

SUBMITTED: March 19, 1959
Card 2/2

SOV/20-126-5-63/69

17(3)

AUTHOR:

Pleshkov, B. P.

TITLE:

Content of Tryptophane in Barley Proteins (Soderzhaniye
triptofana v belkakh yachmenya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1135-1136
(USSR)

ABSTRACT:

The amino acid composition in the leaves, stalks, bulbs, and other vegetative organs is usually rather similar. But some authors have found (Refs 1,2) essential alterations of the amount of single amino acids in proteins according to the age of the plants. Other authors (Ref 3) found this fact unproved at the Chlorella sea weed. In this paper the author has determined the amount of one of the essential amino acids of the tryptophane in dependence on the age and the nitrogen-, phosphorus- and potash nutrition. The test results in table 1 show that the amount of tryptophane alters considerably both in dependence on the age and on the nutrition conditions. The highest amount (1.88% of the total nitrogen of the proteins) was found in young, 24 days old plants which were cultivated under normal nutrition conditions. An insufficient provision of the plants

Card 1/2

PLESHKOV, B.P.; SHMYREVA, T.V.; IVANKO, Sh.

Rate of amino acid metabolism in plants. Biokhimiia 24
no.3:408-413 My-Je '59. (MIRA 12:9)

1. The Agricultural Academy, Moscow.
(PLANTS, metab.
amino acids (Rus))
(AMINO ACIDS, metab.
plants (Rus))

PLESHKOV, B.P., kand. biolog. nauk; FOUDEM, L. [Fowden, L.], doktor

Effect of mineral nutrition and the age of plants on the content of free amino acids and the amino acid composition of proteins in barley leaves. Izv. TSKhA no.5:95-112 '59 (MIRA 13:3)

1. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im. K. A. Timiryazeva. (for Pleshkov). 2. Universitetskiy kolledzh, London (for Fouden).

(Barley--Fertilizers and ~~mamres~~ (Proteins)
(Amino acids)

PLESHKOV, B.P.

Some features of nitrogen metabolism in plants as related to the
conditions of phosphorus nutrition. Fiziol. rast. 5 no.2:196-199
Mr-Ap '58. (MIRA 11:4)

1.Kafedra agronomicheskoy i biologicheskoy khimii Sel'skokhozyaystvennoy
akademii im. K.A. Timiryazeva, Moskva.
(Nitrogen metabolism)
(Plants, Effect of phosphorus on)

KHAVKIN, E.Ye.; PLESHKOV, B.P., kand. biol. nauk

Physiological activeness of urea [with summary in English]. Izv.
TSKhA no. 3:215-222 '58. (MIRA 11:7)

(Urea)
(Plants--Physiology)

FLESHKOV, B.P., kand. biol. nauk.

Effect of phosphoric nutrition on the exchange of nitrogen
compounds in plants [with summary in English] Izv. TSKhA no.2:
117-126 '58. (MIRA 11:6)
(Plants, Effect of phosphorus on)
(Nitrogen compounds)

The Influence Exerted by Conditions of Nutrition Upon the Con- 20-6-42/47
tent of Free Amino Acids in Phaseolus Leaves.

ASSOCIATION:

Moscow Agricultural Academy imeni K.A. Timiryazev (Moskovskaya
sel'skokhozyaystvennaya akademiya im. K.A. Timiryazev)

PRESENTED: July 17, 1957, by A.I. Oparin, Academician

SUBMITTED: July 15, 1957

AVAILABLE: Library of Congress

The Influence Exerted by Conditions of Nutrition Upon the Content of Free Amino Acids in Phaseolus Leaves. 20-6-42/47

argine, aspartic acid, serine, and glycine especially strongly increased. In the case of nitrogen deficiency (variant PK), when all nitrogen reserves in the plant are put into the protein synthesis, the content of free amino acids almost sank by the 1,5 fold. Arginine, aspartic acid, serine, glycine, glutamic acid, α - and β -alanine, valine and phenylalanine especially strongly decreased. These amino acids apparently are capable of giving off their nitrogen by deamination and reamination above all to the synthesis of other amino acids which are necessary for the formation of protein molecules. Tyrosine and treonine increase in the case of nitrogen deficiency, which fact could not yet be explained. The content of arginine in the leaves is most affected by the variation of the conditions of nutrition. In nitrogen deficiencies it decreases 6-fold, but in potassium deficiencies it increases 2,5 fold. The major part of arginine decomposes in the case of nitrogen starvation and its nitrogen is, as above-indicated, used in the protein synthesis. The decomposition of arginine may also proceed over the ornithine-cycle under formation of urea. Under the action of urease, urea forms ammonia which is used for the synthesis of new acids. There are 1 figure, 1 table, and 12 references, 6 of which are Slavic.

Card 3/4

The Influence Exerted by Conditions of Nutrition on the Content of Free Amino Acids in Phaseolus Leaves. 20-6-42/47

+ isoleucine according to leucine. From the results follows that in the case of nitrogen deficiency (variant PK) the content of amino nitrogen is about 1,5 times less than in the variant NPK. In phosphorus and potassium deficiencies (variant PK and NP) the content of amino nitrogen is more or less increased. Cystine, lysine, histidine, asparagine, arginine, glutamine, aspartic acid, serine, glycine, glutamic acid, treonine, α -alanine, β -alanine, proline, tyrosine, tryptophane, valine, methionine, phenylalanine, leucine, isoleucine and 2 non-identified amino acids were chromatographically determined in the bean leaves. Figure 1 shows the photograph of chromatograms of the leaf-extracts of the 2 extreme variants NP and PK which differ most widely in their content of amino acids. The results of a quantitative determination of these acids are given in table 1. In the case of normal nutrition (variant NPK) the following were found: arginine, aspartic acid, serine, glycine, glutamic acid, α -alanine, tryptophane and valine. The content of the other above-mentioned amino acids was very small. In deficiencies of phosphorus and especially of potassium, when the protein synthesis in the leaves was very much inhibited, the content of free amino acids markedly increased. The content of

Card 2/4

728 5/1/82, 12.12

AUTHORS: Pleshkov, B. P., Ivanko, Sh., and Antonova, G.V., 20-6-42/47

TITLE: The Influence Exerted by Conditions of Nutrition Upon the Content of Free Amino Acids in Phaseolus Leaves (Vliyaniye usloviy pitaniya na sodержaniye svobodnykh aminokislot v list'yakh fasoli)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 6, pp. 1070-1073 (USSR)

ABSTRACT: The conditions of the mineral nutrition may by modification of the intensity and the direction of metabolism of plants essentially influence the content of free amino acids in the individual organs. A lack of individual elements reduces the intensity of the protein synthesis and leads to the accumulation of free amino acids in the plant. This was noticed in the case of lack of sulphur, calcium, magnesium, boron, potassium, zinc, copper, manganese and iron although the nitrogen nutrition was the best and chlorine was abundantly present. A deficiency of molybdenum reduces the content of free amino acids in the plant (reference 1-11). The authors studied this problem in the cultivation of beans on different levels of nitrogen, phosphorus and potassium. First the method is described. The third, fourth and fifth leaf of the beans of the sort "Triumf lushchil'nyy" were analyzed and the quantitative determination of the amino acids chromatographically performed on paper. Methionine + valine were calculated according to valine, leucine +

Card 1/4

COUNTRY : USSR I
 CATEGORY : PLANT PHYSIOLOGY. Respiration and Metabolism.
 ABS. JOUR. : REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15268
 AUTHOR : Pleshkov, B.P.
 INST. : Moscow Acad. Agric. Sciences im. Timiryazev
 TITLE : Change in the Qualitative Composition of Protein and Free Amino Acid Content Due to Nutritional Conditions.
 ORIG. PUB. : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957, vyp. 31, 60-66
 ABSTRACT : The determination of the fractional composition of protein of oat seeds dependent on the nutritional conditions showed that insufficient nutrition of plants with K (variant NP) led to a decrease (in comparison with the variant NPK) in the content of protein which was soluble in H₂O and a 10% NaCl solution, and that the amount of protein soluble in 70% alcohol and 0.2% NaOH was elevated, as was also the amount of in-

CARD: 1/3

USSR / Soil Science. Mineral Fertilizers.

J-4

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77434

Author : Pleshkov, B. P.; Makhina, G. P.

Inst : Timiryazov Agricultural Academy

Title : Comparative Study of Appropriation by Corn of Phosphorus from Different Marked Phosphorus Fertilizers

Orig Pub : Izv. Timiryazovsk. s.-kh. adak., 1957, No 3, 178-185

Abstract : In tests conducted on acid podzolic soil (pH 5.5) and in sandy cultivations in a Pryanishnikov mixture, the appropriation of P by corn was studied by marked P^{32} of superphosphate (I), precipitate (II), tricalcium phosphate (III) and hydroxylapatite (IV), which were equal in specific activeness. It was established that in the first period of growth of the corn, P was appropriated from I and II significantly better than from III and IV. In $2\frac{1}{2}$ months after the planting, the greatest quantity of P was absorbed

Card 1/2

USSR/Plant Physiology. Mineral Nutrition

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 86645

Author : Pleshkov B.P.

Inst : ~~Moscow Agricultural Academy~~ imeni K.A. Timiryazev

Title : The Influence of the Conditions of Phosphorus Nutrition on the Processes of Nitrogen Metabolism in Plants

Orig Pub : Dokl. Mosk. S.Kh. Akad. im. K.A. Timiryazev, No 25, 158-164, 1956

Abstract : At high doses of phosphorus (3P), and especially at OP plus 3P in maize grown in sand on Gel'rigol's mixture, there accumulated a great deal of ammonia, which caused characteristic intoxication of leaves, - stronger at nutrition with NH_3 than with NO_3 . The poisoning took place at 0.2 milligrams of NH_3 per gram of natural weight of leaves upon nutrition with NO_3 , and at 0.3-0.4 milligrams of NH_3 per gram upon nutrition with NH_3 . The leaves of sorrel contain 0.8-0.9 milligrams of NH_3 - a quantity that is lethal to maize. Intoxi-

Card : 1/2

USSR / Soil Science. Mineral Fertilizers.

J

Abs Jour: Ref Zhur-Biol., No 7, 1958, 29494.

Author : Gulyakin, I.V., Smirnov, P.M. Pleshkov, B.P.,
Shmyreva, T.V.

Inst : Not given.

Title : Plant Phosphorous Uptake in Relation to the Methods of Application of Superphosphate and Accompanying Fertilizers. (Postupleniye fosfora v rasteniya v zavisimosti ot sposobov vneseniya superfosfata i soputstvuyushchikh udobreniy).

Orig Pub: Dokl. Mosk. s.-kh, akad. im K. A. Timiryazeva, 1956, vyp. 22, 304-314.

Abstract: The effect of the methods and depth of application on plant P absorption and the role of organic substances, lime and other fertilizers when applied together with P_0 were studied in

The rate of protein synthesis in the chloroplasts of *Chlorella* (strain 13-1) was measured in the presence of ^{35}S -methionine. The chloroplasts were isolated from cells grown in a medium containing ^{35}S -methionine. The chloroplasts were then incubated with ^{35}S -methionine for a period of 15-20 minutes. The rate of protein synthesis was measured by the amount of ^{35}S -methionine incorporated into the protein. It was shown that the rate of protein synthesis in the chloroplasts was twice that of the cytoplasm. Exposure to light for a period exceeding 15-20 minutes resulted in a greater specific radioactivity in the plastid proteins. In the case of the chloroplasts infiltrated with ^{35}S , the rate of ^{35}S incorporation into the plastid proteins exceeded that of the incorporation of ^{35}S into the cytoplasm proteins.

B. D. Kuylen

Chair of Agronomy & Biological Chem.

PLESHKOV, B.P., kandidat biologicheskikh nauk.

Soil nutrition of plants and the use of fertilizers. Est.v shkole
no.3:62-69 My-Je '56. (MLRA 9:8)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva.

(Plants--Nutrition)

Pleshkov, B. P.

62 Effect of nitrogen, potassium, and organic matter on utilization of phosphorus from superphosphate by potatoes. P. M. Smirnov and B. P. Pleshkov (K. A. Timiryazev Agr. Acad., Moscow). *Doklady Akad. Nauk S.S.S.R.* 103, 673-5 (1955).—P in the form of P^{32} -labeled superphosphate, N as NH_4NO_3 , and K as KCl were used as the added fertilizer materials in tests with potato plants. Superphosphate alone or with added N, K or org. matter, gave a pos. effect on supply of the plants with P, although the 3 addends were of considerable benefit. Plants grown with these addends absorb more P from the soil than do controls without added superphosphate. G. M. Kosolapoff

HAN WANG KUN, CHINESE, 1914.

1. NAME OF PARTY: HAN WANG KUN
COMPOSITION OF PARTY: HAN WANG KUN
AND HAN WANG KUN

1. HAN WANG KUN, CHINESE, 1914.
COMPOSITION OF PARTY: HAN WANG KUN

INTERVIEW, 2-7-71, by [redacted] and [redacted] (Accession # [redacted])
[redacted]
GUYARD, [redacted]
Vill., aka [redacted]
[redacted] (Accession # [redacted])
[redacted] (Accession # [redacted])

Pleshkov, B. P.

AG The influence of methods of applying superphosphate and supplementary fertilizer ingredients on the utilization of phosphorus by plants. I. V. Gulyakin, P. M. Smirnov, B. P. Pleshkov, and T. V. Shmyreva (K. A. Timiryazev Agr. Acad., Moscow). *Pochvovedenie* 1935, No. 7, 23-36.—Plot expts. were conducted with oats and potatoes to study the influence of superphosphate, contg. tagged P mixed with manure and limestone, on the intake of P by plants. Deep incorporation of the phosphates is utilized more efficiently than shallow incorporation. The latter method gives better utilization of P in the early stages of growth, whereas the former method gives better utilization in the later stages of growth. The best method of supplying P is some row application and deep incorporation of phosphates. Mixed with manures, the P application gives better results in the later stages of growth than without manure. Limestone reduces the intake of P. Addition of NH_4NO_3 when placed in the row decreases the intake of P in the early stages of growth and increases it in the later stages. 32 references. J. S. Joffe

③

P. I. Shostakov, B. F. Ploskhov
USSR / Plant Physiology. Mineral Nutrition

11-3

Abstr Jour : Ref Zhur - Biol., No 16, 25 Aug 57, No 68935

Author : Shostakov, A.G., Ploskhov, B.F.
Title : Nitrogen, Phosphorus, and Potassium as Regulators of
Enzymatic Processes in Plants.

Orig : Izv. Timiryazovskoi, s. kh. akad., 1955, No 3, 139-154

Abstract : In vegetative experiments on sandy crops, potatoes were grown on a complete nutritive Pryanishnikov mixture and with the exclusion of the individual elements N, P and K. The study of intensity of sucrose and starch synthesis by the method of vacuum-infiltration with different nutritional backgrounds showed that a lack of K strongly inhibits sucrose synthesis, and a lack of P--starch synthesis. The introduction of K by infiltration into plant leaves grown with insufficient K markedly changed the composition of leaf carbohydrates in only 18 hours; at the cost of almost total disappearance of monosaccharides the

Card 1/3

PLESHKOV, B. P.

USSR/Biology - Plant physiology

Card 1/1 : Pub. 22 - 39/44

Authors : Shestakov, A. G., and Pleshkov, B. P.

Title : Effect of N, P and K on the synthesis of albumina in plants

Periodical : Dok. AN SSSR 98/1, 149-152, Sep 1, 1954

Abstract : The effect of N, P and K on the activity of fermentation systems leading to the synthesis of albumina in potato leaves, was investigated and the results obtained are given in tables. Thirteen USSR references (1933-1952).

Institution : The K. A. Timiryazev Agricultural Academy, Moscow

Presented by : Academician A. L. Kursanov, June 4, 1954

PLESHKOV, B.P.

The effect of prolonged application of nitrogen, phosphorus, and potassium-containing fertilizers on the metabolic processes and yield of potato crops. A. G. Shestakov and B. P. Pleshkov. *Rasteniya i Udobreniya, Sbornik* (Moscow: Tsimryazev. Sel'skokhoz. Akad.) 1954, 163-73; *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 9180.—Field fertilization expts. were performed with the following combinations: N, P, K, NP, NK, PK, NPK, NPK and manure, manure alone, and control or no fertilization, under conditions of continuous and crop-rotation systems of potato growing. Potato tubers were analyzed for the content of monosaccharides, sucrose, and starch (I) as well as for nonprotein and protein N. In an insufficiency of P and K there was observed an increased sugar content and a reduced synthesis of I as compared with NPK fertilization. The max. content of I was observed with P fertilization. An insufficiency of N caused an increase in the sucrose and I content of the tubers at first. However, since this caused the aboveground parts of the plant to die poorly and wither and die early, I in the tuber as a consequence remained on a low level. With practically all fertilization variants there was observed an increase in the sucrose synthesis and the accumulation of I with the age of the plant. The N content in the tubers also increased, primarily at the expense of the protein N. The max. N content was observed when fertilizer NPK variant was used. The highest potato yield was obtained with variant PK and manure.

B. S. Levine

PLESHKOV, B.P.

AG The effect of nitrogen, phosphorus, and potassium fertilizers added at different stages of the potato growth. A. G. Shestakov and B. P. Pleshkov. *Plants Rasteni i Udobrenia*, Sbornik (Moscow: Timiryazev. Sel'skokhoz. Akad.) 1954, 8-16; *Russk. Zh. Khim. Biol. Khim.* 1955, No. 9129. — The elimination of N, P, and K from fertilizing mixts. applied to the potato crop was demonstrated experimentally. Insufficient nutrition of the plants during the early period of growth seriously disturbs the N and carbohydrate metabolism of the growing plants. Such treatment also results in an increased accumulation of sol. and reducing sugars and of nonprotein substances in the leaves, which in turn leads to a reduction in the starch content of the tubers. Preplanting fertilization is more effective than later fertilizer reinforcement. In the latter case a reduction

in the potato crop and a lowering in the tuber starch content are observed.

B. S. Levin

①

Pleshkov B.I.

VITKEVICH, Vitaliy Ignar'yevich; PLESHKOV, B.I., red.; ZUBRILINA, Z.P.,
tekhn.red.; FEDOTOVA, A.F., tekhn.red.

[Prakticheskie zaniatiia po meteorologii. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1957. 205 p. (MIRA 10:12)
(Meteorology)]

L 29422-66

ACC NR: AP6017998

onto the exterior cylindrical bearing race. To ensure the bearing's self-alignment and the reliability of its seal, the exterior surface of the housing is spherical in shape and the edges of its side walls are fitted with ring-shaped flanges, which grip the edges of the inner bearing race. Orig. art. has: 1 figure. [WH]

SUB CODE: 13/ SUBM DATE: 14Aug64/ ATD PRESS: 5010

Card 2/2 *61*

L 29422-66 EWT(m)/T DJ

ACC NR, AP6017998

(A)

SOURCE CODE: UR/0413/66/000/010/0107/0107

INVENTOR: Blokhin, V. Ya.; Pleshakov, B. I.

ORG: none

TITLE: Permanently lubricated ball bearing. Class 47, No. 181909 [announced by the State Special Design Bureau for Grain-Harvesting Combines and Automobile Chassis (Gosudarstvennoye spetsial'noye konstruktorskoye byuro po zernouborochnym kombaynam i samokhodnym shassi)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 107

TOPIC TAGS: ball bearing, permanently lubricated bearing

ABSTRACT: An Author Certificate has been issued for a permanently lubricated ball bearing set into a snug bushing and sealed in a housing which is tightly mounted

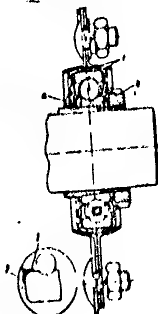


Fig. 1. Permanently lubricated ball bearing

1 - Housing; 2 and 3 - ring-shaped flanges;
4 - bearing race.

Card 1/2

UDC: 621.822.74.621.822.66

GORSHENIN, Konstantin Pavlovich, prof., laureat Leninskoy premii;
ALEKSANDROVA, Lyudmila Nikolayevna; ANTIPOV-KARATAYEV, Ivan
Nikolayevich; GARKUSHA, Ivan Fedoseyevich; SOBOLEV, Sergey
Stepanovich; PLESHKOV, B.I., red.; SOKOLOVA, N.N., tekhn.red.

[Soil science] Pochvovedenie. Pod obshchei red. K.P.Gorshenina.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 438 p. (MIRA 12:8)

1. Omskiy sel'skokhoz.institut (for Gorshenin). 2. Leningradskiy
sel'skokhoz.institut (for Aleksandrova). 3. Pochvennyy institut
Akademii nauk SSSR (for Antipov-Karatayev, Sobolev). 4. Belorusskaya
sel'skokhoz.akademiya (for Garkusha).
(Soils)

SOKOLOVSKIY, Aleksey Nikanorovich, akademik; OZEROV, V.N., redaktor;
PLESHKOV, B.I., redaktor; PRVZNER, V.I., tekhnicheskii redaktor;
VESKOVA, Ye.I., tekhnicheskii redaktor

[Agricultural soil science] Sel'skokhoziaistvennoe pochvovedenie.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 335 p. (MIRA 10:3)
(Soils)

KOROTKIKH Grigoriy Ivanovich; PLESHKOV, B., redaktor; PAVLOVA, M., tekhnicheskiiy redaktor

[Aerosols and their use in agriculture] Aerozoli i ikh primeneniye v sel'skom khoziaistve. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956.
111 p. (MLTA 9:11)

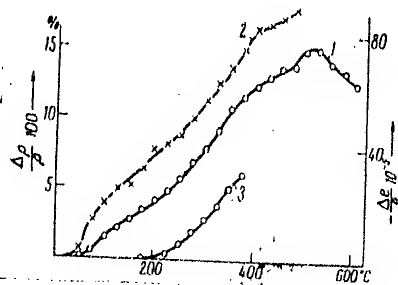
(Aerosols) (Spraying and dusting apparatus)

Formation of the K-state in ...

S/020/62/142/001/013/021
B104/B102

SUBMITTED: July 17, 1961

Fig. 1. Electrical resistance (1) and length (2) of cold-worked samples as a function of temperature. (3) is the electrical resistance of a merely hardened sample as a function of temperature.



Card 3/3

Formation of the K-state in ...

S/020/62/142/001/013/021
B104/B102

leading to the formation of the K-state almost equals that of the hardened alloy. This stage is associated with the motion of vacancies. For the range II $U = 1.56 \pm 0.13$ ev. In range III, the sharp increase in activation energy with rising temperature is due to the increasing influence of thermal vacancies. The activation energy in range I is about half as high as in range II (0.77-0.85 ev) and is close to the migration energy of dislocated atoms in nickel. There are 3 figures and 20 references: 6 Soviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: I. A. Brinkman, C. E. Dixon, C. I. Meehan, *Acta Met.*, 2, 38 (1954); R. A. Dugdale, *Phil. Mag.*, 1, 597 (1956); G. R. Piercy, *Phil. Mag.*, 2, no. 51, 201 (1960); L. M. Clarebrough, M. G. Hargreaves, M. H. Loretto, G. W. West, *Acta Metallurgica*, 8, no. 11, 797 (1960).

ASSOCIATION: Sibirskiy fiziko-tekhnicheskii institut pri Tomskom gosudarstvennom universitete im. V. V. Kuybysheva (Siberian Physicotechnical Institute at the Tomsk State University imeni V. V. Kuybyshev)

PRESENTED: July 20, 1961, by G. V. Kurdyumov, Academician

Card 2/3

S/020/62/142/001/013/021
B104/B102

AUTHORS: Popov, L. Ye., Karpov, G. I., Panova, L. M., and Pleshkov, A. V.

TITLE: Formation of the K-state in cold-worked chrome-nickel alloys

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 142, no. 1, 1962, 72-74

TEXT: The variations in electrical resistance and volume of cold-worked wire (2.2 mm in diameter) of a nickel alloy (16.6% Cr; 0.34% Si; 0.014% C; 0.03% S; 0.4% Fe) were investigated at different annealing temperatures. The samples were heated to 1000°C and quenched in water, and their diameters were then reduced to 1 mm. The electrical resistance dropped by 10% owing to destruction of the K-state. Subsequently, the samples were annealed for 10, 21, and 90 min at 20-600°C, intervals of 25°C. The variations in electrical resistance and length (Fig. 1) are divided into three temperature ranges: I: 20-120°C; II: 120-420°C; III: $t > 420^\circ\text{C}$. In range I, the changes in lattice parameters, leading to the formation of the K-state, are small. The volume is changed by the elimination of lattice defects. In range II, the activation energy U required for the motion of defects

Card 1/3

POPOV, L.Ye.; KARPOV, G.I.; PANOVA, L.M.; PLESHKOV, A.V.

Mechanism of K-state formation in cold-deformed **nickel**-chromium alloys. Dokl. AN SSSR 142 no.1:72-74 Ja '62. (MIRA 14:12)

1. Sibirskiy fiziko-tekhnicheskoy institut pri Tomskom gosudarstvennom universitete im. V.V. Kuybysheva. Predstavleno akademikom G.V. Kurdyumovym.

(Deformations (Mechanics))
(Nickel-chromium alloys--Electric properties)

PLESHKOV, A.M.

Problem of extrarenal azotemias. Sov.med. 25 no.5:100-104 My '61.
(MIRA 14:6)

1. Iz vtoroy terapevticheskoy kafedry (ispolnyayushchiy obyazannosti
zaveduyushchego - dotsent G.A.Gol'dberg) Stalinskogo gosudarstvennogo
instituta usovershenstvovaniya vrachey (dir. - dotsent G.L.Starkov),
Stalinsk.

(NITROGEN IN THE BODY)

USSR / Human and Animal Physiology. Blood.

T-3

Abstr Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3338

treatment. Three to four weeks after the first application of the radioactive phosphorus, a decrease was noted in the values of Hb, erythrocytes, thrombocytes, reticulocytes and leukocytes. A remission period of 3 - 22 months followed $1\frac{1}{2}$ - 2 months after the end of treatment. In a number of cases, repeated prophylactic doses (1.5 - 4 m Curie) of radioactive phosphorus had the effect of prolonging the remission. With the success of the treatment, the antitoxic function of the liver became increased, pathological changes disappeared in the urine, and the action of the heart improved. With diminishing blood volume, the liver and spleen contracted. The changes which ensued after the treatment of erythremia and affected blood pressure, velocity and flow of blood, capillaroscopic picture and electrocardiogram,

Card 2/3

T-3

USSR / Human and Animal Physiology. Blood.

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3338

Author : Pleshkov, A. M.

Inst : Central Institute for the Advanced Training of
Physicians

Title : Treatment of Erythremia with Radioactive Phosphorus

Orig Pub : Nauchn. raboty aspirantov i klinich. ordinatorov.
Tsentr. in-t usoversh. vrachey, 1957, Vyp. 4, 71-89

Abstract : Patients with erythremia (15 men and 12 women), chiefly
of age 40 - 60, were treated with radioactive phosphorus
in a total dosage of 5 - 8 m Curie. In cases of marked
disturbances of the cerebral blood circulation, blood-
letting was done before treatment (400 - 500 ml). As a
reaction of the bone marrow to the stimulation by the
radioactive phosphorus, the number of erythrocytes in
many cases temporarily increased near the end of the

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POSPELOV, S.A., professor; PLESHKOV, A.M.

Now method for determining the number of formed elements in the
blood. Voen.-med.zhur. no.7:28-32 J1 '56. (MLRA 9:11)
(BLOOD CELLS)

Pleshkov, A.M.

USSR/Pharmacology. Toxicology. Various Preparations. V-9

Abst Jour : Ref Zhur-Biol., No 6, 1958, 28224.

Author : Pleshkov A. M.

Inst : Not given.

Title : Therapy of Patients Ill with Erythremia with
Radioactive Phosphorus.

Orig Pub : Klinich. meditsina, 1955, 33, No 2, 13-21

Abstract : A survey (with own data cited) of the results obtained in the therapy of 27 patients ill with erythremia with P^{32} . 24 of the patients were treated by the fractional method; the patients received 4-8 m curie. Three of the patients were subjected to preliminary preparation in the form of bleeding and subsequent injection of plasma. In this

Card 1/2

PLESHKOV, A.M. (Novokuznetsk)

Effect of some plant oils on the level of cholesterol and lecithin in the blood in arteriosclerosis. Klin.med. no.3:126-130 '62. (MIRA 15:3)

1. Iz terapevticheskoy kliniki No.1 (zav. - prof. G.M. Sher-shevskiy) Novokuznetskogo instituta usovershenstvovaniya vrachey (dir. - dotsent G.L. Starkov).

(CHOLESTEROL) (LECITHIN)
(ARTERIOSCLEROSIS) (OILS AND FATS)

PLESHKOV, A.M., kand.med.nauk

Hemorrhagic vasculitis with pericarditis and lung lesions of the
Hamman-Rich syndrome type. Vrach.delo no.10:143-144 O '62.
(MIRA 15:10)

1. Vtoraya terapevticheskaya kafedra (ispolnyayushchiy obyazannosti
zaveduyushchego - dotsent G.A.Gol'dberg) instituta usovershenstvova-
niya vrachey goroda Novokuznetska.
(PULMONARY FIBROSIS) (ERICARDTIS) (PURPURA (PATHOLOGY))

PLESHKOV, A.M.

Effect of prolonged use of easily absorbed carbohydrates
(sugar) on the level of blood lipids in atherosclerosis.
Terap arkh. 35 no.2:66-70'63. (MIRA 16:10)

1. Iz 2-y terapevticheskoy kafedry (zav. G.A.Gol'dberg) Novo-
kuznetskogo instituta usovershenstvovaniya vrachey.
(ARTERIOSCLEROSIS) (SUGAR IN THE BODY)
(LIPID—METABOLISM)

PLESHKOV, A. M.

"The Treatment of Erythremia With Radioactive Phosphorus." Cand Med Sci,
Central Inst for the Advanced Training of Physicians, 18 Jan 55. (VM, 7 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

PLESHKOV, Aleksandr Georgiyevich; PANKRASHOV, A.P., red.; POD"YEL'SKAYA,
K.M., tekhn.red.

[Remuneration of labor in logging camps] Oplata truda rabochikh
na lesozagotovkakh. Petrozavodsk, Gos.izd-vo Karel'skoi ASSR,
1958. 40 p. (MIRA 12:12)
(Lumbering) (Wages)

ACC NR: AP7007622

SOURCE CODE: UR/0386/07/005/003/0071/0076

AUTHOR: Kurnosov, V. D.; Pleshkov, A. A.; Petrukhina, G. S.; Rivlin, L. A.; Trukhan, V. G.; Tsvetkov, V. V.

ORG: none

TITLE: Emission of a short single pulse by an injection semiconductor laser

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 3, 1967, 77-78

TOPIC TAGS: gallium arsenide, laser r and d, laser emission, semiconductor laser, junction diode, laser modulation

ABSTRACT: This is a continuation of earlier work (Pis'ma ZhETF v. 4, 449, 1966) on spike production in a self-modulated GaAs laser, the results of which implied the feasibility of observing very short single light pulses from such a laser when excited by a much longer injection pulse. This possibility was tested in the present investigation using a GaAs diode with diffusion pn junction and a resonator produced by cleavage. An injection pulse of duration ~ 2 nsec was produced with a ferrite surge line. Streak photographs of the laser output, obtained with high-resolution equipment, showed distinctly that individual light pulses were produced, of approximate duration 2×10^{-10} sec, or about one-tenth the injection duration. Even shorter pulses could be obtained by varying the parameters and duration of the pulses. Orig. art. has: 1 figure. [02]

SUB CODE: 20/ SUBM DATE: 03Oct66/ ORIG REF: 001/ ATD PRESS: 5117

UDC: none

Card 1/1

ACC NR: AP701339

sion self-modulation (spikes), whose period decreased with increasing injection current (from 0.35 nsec at 2 amp to 0.17 nsec at 4.3 amp). There was no self modulation of the spontaneous emission below threshold. Self modulation periods as low as 0.05 nsec were observed in different diodes with threefold excess over threshold. The synchronous self modulation was accompanied by non-synchronous modulation at individual points, probably due to differences in local thresholds and the inhomogeneous distribution of the injection-current density. The measurement results agree with the calculations in order of magnitude, but a more accurate comparison calls for knowledge of the mode content of the emission, since the calculations were made in the single-mode approximation. The authors thank M. M. Bustlov for consultation and supplying the EOC tubes. Orig. art. has: 1 figure and 3 formulas.

SUB CODE: 20/ SUBM DATE: 29Jul66/ ORIG REF: 002/ OTH REF: 003

Card 2/2